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(54) Total security system

(57) The Total Security System is designed to protect Vehicles, motorbikes, building industry machinery (e.g. JCB's), Security boxes/cases and any other mobile object.

The TSS on the protected object includes a gps decoder, a microprocessor and a cellular telephone circuit and will be triggered off if an attempt is made to steal the object and will send signal to a control room in which the signal will be converted in to a full map location and information about the object, the owner's name and address. This information will then be relayed to the authorities concerned for appropriate action to be taken.

The system will continue updating the control room regularly until the system is manually de-activated.

Additionally, the system could be triggered off and made to respond from the control room and continuous update maintained.

The system also provides the user with the means when under immediate threat to call for help by pressing the panic button or press other relevant buttons when in other difficulties.

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TOTAL SECURITY SYSTEM

This invention relates to a multi application security system which will be applicable to any type of vehicle or mobile object.

Vehicle, building industry machinery, (e.g. JCBs) and motorbike theft is on the increase. Security boxes handled by security companies are snatched or taken by armed criminals. Up to now security systems have failed to combat these crimes, and to assist in the arrest and conviction of those who committed the thefts.

The Total Security System (TSS) will help in significantly reducing the number of those crimes by continuously providing the location of the stolen object and leading the police to it.

The TSS on the protected object will be triggered off if an attempt is made to steal the object and will send its geographical position and it's serial number to a control room in which the geographical position will be converted in to a map location giving an indication of which road it is on and the serial number will be used to obtain all the information required about the object protected by the TSS and the owner's name and address. This information will then be relayed to a police patrol or other authority for appropriate action to be taken.

The system will continue updating the control room of it's current position regularly until the system is manually de-activated.

Additionally, the system could be triggered off and made to respond from the control room and continuous update of the object's geographical position is maintained.

According to the present invention, the system will consist of a global positioning satellite decoder circuit connected to a micro-processor based micro-processor controller circuit, a modem will then be used to interface the micro-processor controller circuit with a cellular telephone circuit. The described configuration will receive an alarm input, causing the micro-processor controller to read the position code from the global positioning satellite decoder circuit and relay them via the modem and the cellular telephone circuit to a central control room. According to the present invention, the central control room will consist of telephone, modem, computer and database software containing address locations.

A specific embodiment of the invention will now be described by way of examples.

The system will be activated (switched on) by entering the correct code using the coded key pad and the system will be activated after a pre-determined length of time.

When the system user is under immediate threat, help could be called by pressing the panic button on the coded key pad.

To switch the system off, the system user will have to enter the correct code within a predetermined length of time as the system will be triggered off after a pre-determined length of time from the time the system sensed tampering.

When the system senses tampering and the correct code not entered within a pre-determined length of time the system will be triggered off and the micro-processor controller will activate the GPS decoder circuit and read from the said circuit the current geographical position as determined by the GPS decoder circuit. The micro-processor controller will then activate the cellular telephone circuit to contact a control room and relay the current geographical position via the modem to the control room computer.

When the signal received from the alarm system via a modem/telephone link to the control room, the signal will be interpreted by the control room computer into information about the object protected by the system, the object owner's name and address and the current address of the object for use by the authorities concerned.

CLAIMS

1. An alarm system which comprises a sealed box which contains a global satellite positioning decoder circuit, a cellular telephone circuit, a modem circuit, micro-processor controller circuit to provide control over the system, a coded key pad for user control and alarm triggering devices.
2. An alarm system as claimed in Claim 1 wherein a coded key pad is used to enable and disable the alarm by the system user.
3. An alarm system as claimed in Claim 1 or Claim 2 wherein the coded key is connected to the micro-processor which will identify the correct code entered and hence will control the system accordingly.
4. An alarm system as claimed in Claim 1 wherein the alarm triggering devices will detect any intrusion and signal upon detection state of alarm.
5. An alarm system as claimed in Claim 1 and in Claim 4 wherein the triggering devices are connected to the micro-processor controller.
6. An alarm system as claimed in Claim 1, Claim 2 and Claim 4 wherein an alarm state indication by the alarm triggering devices the micro-processor controller will wait for a pre-determined length of time for a successful code entry upon the coded key pad otherwise the micro-processor controller will go into full alarm state.
7. An alarm system as claimed in Claim 2 and Claim 6 wherein upon full alarm state, if a correct code entry upon the coded key pad is received the micro-processor controller will hence disable the alarm.
8. An alarm system as claimed in Claim 1 and Claim 6 wherein upon full alarm state the micro-processor controller will activate the GPS decoder circuit and read from the said circuit the current geographical position as determined by the GPS decoder circuit.
9. An alarm system as claimed in Claim 1 or Claim 8 wherein the micro-processor controller will activate the cellular telephone circuit to contact a control room.
10. An alarm system as claimed in Claim 1 or Claim 8 or Claim 9 wherein the geographical position codes are transmitted via the modem to the control room computer.
11. An alarm system as claimed in Claim 10 wherein the control room comprising telephone, modem, computer and database software containing address locations for the received geographical positioning codes.

12. An alarm system as claimed in Claim 9, Claim 10 and Claim 11 wherein the signal received from the alarm system via a modem/telephone link to the control room will be interpreted by the control room computer into a meaningful address, for use by the authorities concerned.

Patents Act 1977
Examiner's report to the Comptroller under
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Relevant Technical fields

- (i) UK Cl (Edition L) G4N (NHVX, NPPXA2); H4D (DAA, DAB, DPBC)
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Search Examiner

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Databases (see over)

(i) UK Patent Office

(ii)

Date of Search

3 MARCH 1993

Documents considered relevant following a search in respect of claims

1-12

Category (see over)	Identity of document and relevant passages	Relevant to claim(s)
X	EP 0242099 A2 (ADVANCED STRATEGICS)	ALL

Category	Identity of document and relevant passages - 6 -	Relevant to claim

Categories of documents

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